App. F. IX-4

V

193 .

(V.P.)

File No. 38-83

Serial Nos. 479

Previous References

P: 7:

PRESERVED

Later References

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. 480

Part B for March 1934

SUBJECT.

Proposal to give the Ch Engr the discretion to post for V.P. works not only members of the P.W.D. but also fresh recruits

To The Ch Engr, the Rev Comr, the Dy C. Health the Dy Comrs of Dts. & the Comptr

L 6630-141 Dt. 9. 3. 34

Approves of the

Dt. 12. 3. 34

File No. 4753 of 193 | General and Revenue Secretariat

25

The deputation met the Dewan on the 5th when the Secretary, the Revenue Commissioner, the Director of Health & the Agent Bangalore were also present.

26 The Dewan wanted the Association to obtain from the Municipality a grant of Rs 15000 for the water supply when Govt would also contribute making a grant of Rs 50000 to enable the bigger scheme to be taken up

27. He explained that the policy of Govt was to recognise the V.P as far as possible and work through it after ascertaining the possibilities thereof and should at any early date will be explored so as to secure a more representative V.P. The Dept. will take necessary further action

MW. 6.7.36.

28

Put up for orders when case happens may be put up for same present,

6/7 6/7

29 Yes 7/7

7/7

Serial No. 30

To Secretary Board of Revenue calling for their file & returning this Branch file

7/7 AH/7/7 31.

The Rev. Board's file (GR 2-32, 31) is retained. & this file returned.

10/7/34

Letter no. C. 3027/33-34 dt 7-1-34 from the Secy. Board of Revenue requesting that the Law dept may be consulted whether the present Dept. can, may, modify his predecessor's orders, extending the term of the Mitigated Village panchayat till the end of June 1935, so as to restrict the period extension to a period of 3 months.

32. For favor of opinion

10/7. AH/10/7

Asstdeg, Law Section 10/7

33. Under Sec 45 V.P. Regn the DC. of the District is the Chief Controlling Authority in respect of all matters relating to the administration of panchayats in the District. The present DC is itself competent to modify the order of his predecessor and restrict the order of extension if he thinks it necessary.

Asstdeg Law 10/7/34

Law 9

TSD 11/7.

NOTE—Contn. Sheet.

WD 01536—GPB—7,500—5-4-34

34 Sec 12 of the Village Panchayet Regulation is as follows:—

"Except as is otherwise provided in this Regulation, members of Panchayets shall hold office for a term of three years which may be extended by order of the Deputy Comr to a term not exceeding in the aggregate four years, if, on any occasion the Deputy Comr thinks fit, for reasons which shall be notified, together with the order in the Offl: Gazette, so to extend the same"

35 It is therefore necessary for the Deputy Comr to notify the reasons along with his order extending the term. A publication of the mere order without reasons is not an exact fulfilment of the provisions of the Regulation. Whether or not the consequences of this nonfulfilment is to make the extension void and of no effect depends on whether the enactment is absolute or merely directory. "If an absolute enactment is neglected or contravened, a Court of Law will treat the thing which is being done as invalid and altogether void, but if an enactment is merely directory it is immaterial, so

Serial No.

far as relates to the validity of the thing which is being done, whether it is complied with or not." (Craies on statute law page 228). There is however no general rule as to when a mandatory enactment is to be considered directory only or obligatory with an implied nullification for disobedience. In each case the real intention of the legislature has to be construed by carefully attending to the whole scope of the statute. Generally if a statute enacts that something is to be done in such a manner and in no other manner, it has been held to be absolute and that neglect to attend to the manner will invalidate the whole proceeding. The negative is however sometimes implied by the affirmative language being "absolut explicit and peremptory". The rule is thus stated in Bacon's Abridgment "If an affirmative statute which is introductive of a new law direct a thing to be done in a certain way, that thing shall not, even if there be no negative words, be done in any other way."

Note–Contn. Sheet.

36 In this case see 12 of the Vf.

Regulation enables a Deputy Comr to extend the term by means of an order, which the Regulation says, "shall be published in the Offl Gazette, together with the reasons. The language, I think, is "absolute, explicit and peremptory." ~~and~~ Moreover, the conditions prescribed are apparently for public benefit and intended to serve as a ~~check~~ means ~~on the exercise~~ for a proper exercise of the discretion vested in the Deputy Comr. It is a well accepted principle that "the conditions in an enabling Act which have been prescribed for the purpose of protecting or benefiting the public cannot be dispensed with" (Craies page 239).

39. Under these circumstances, the order passed by the D.C. Bangalore in this case, since it gives no reasons as required by Sec 12, is void and of no effect. The present D.C can therefore declare it so and reason..

Serial No.

Suitable orders he may deem fit in the matter of extending the term.

When once however a proper order extending the term is passed and given effect to, the order cannot thereafter be modified by restricting the period of extension. Because this amounts to a curtailment of the life of a corporate body and cannot be done unless the statute contains an express provision to that effect.

Asst Secy dsg
with compts

13/7/34

13. JUL. 1934 246

J 9
Law

for orders

Dy Secy

13/7

Pencil note in brackets in the pencil above will be communicated to Revenue Commissr.

Secy dsg

14.7.

14/7 14.7

Dy Secy 19/7

Note—Contn. Sheet/s

20. JUL. 1934 4/20

Issue (under the signature of the Dy Secy)
20/7

Extension of time for constitution of village panchayat

131
131\718
55
718

VP File No. of 193

General and Revenue Secretariat

To
The Revenue Commr
Ltr 4 dt 23-7-34
Stamp Contract - Can order pending before Govt, Department
is wid exp no appeal.

Letter no. C2 a. 348/34-35 dt 15-8-34
from Govt. Secretariat forwarding a copy
of his Memo note no. C2.a. 348/34-35 dt
31-7-34 re the reconstitution of Whitefield
village panchayat with effect from 15-9-34.

Secretary Revenue
no 2618 form

Repeal para 27 Supra

II Member)

3078

SECOND MEMB. OF COUNCIL
30 AUG. 1934
NO 1344

Files Contract
V.P 69-31
" 20-116,
" 20-29(

4753

OFFICE OF THE REVENUE COMMISSIONER,
IN MYSORE,

No. C.3027/33-34. Encls 3 Docs file

Dated, Bangalore, 10th April *193* 4

11 APR 1934

FROM

N. Madhava Rao. Esq.,B.A.,B.L.,
Revenue Commissioner in Mysore.

14 APR 1934

To

S. Abdul Wajid.Esq., B.A.,
General Secretary to the Government of
His Highness the Maharaja of Mysore, Bangalore.

Subject:- Supply of water to White-field Village Panchayet in Bangalore taluk, . re-

SIR,

In forwarding herewith copies of the correspondence ending with Bangalore Deputy Commissioner's letter No.C2.5293/31-32 dated 28th March 1934 together with copies of the enclosures regarding the water supply Scheme to White-field Village Panchayet, I have the honour to state that the Deputy Commissioner submitted alternative estimates one for Rs 18,000, with a recurring annual expenditure of Rs 900/- and the other for Rs 18,30(with a recurring annual expenditure of Rs 1,100/- in his letter No.C2. 5293/31-32 dated 11th August 1932 (copy enclosed), but as the Village Panchayet was unable to show ways and means for meeting the initial expenses as well as maintenance charges the papers were returned to the Deputy Commissioner.

2. The Deputy Commissioner has now submitted a modified scheme received from Mr.A.J.H.White,Trustee,White-field Lottery Trust Fund, which is estimated to cost Rs 6,000/- excluding a provision of Rs 300/- for contingencies. The Trustees of the Lottery Trust Fund have agreed to contribute the entire cost of the scheme if the local Village Panchayet give a guarantee that they will look after the plant and meet the necessary working charges which may come to Rs 60/- a month. The working charges of Rs 60/- a month are proposed to be met from the income to be derived by selling water to the settlers at Rs 2/- per thousand gallons as against Rs 5/- that they are now paying for the same quantity. The Deputy Commissioner states that a supply of 1,200 gallons of water per day is expected from the 2nd bore hole and from the sale of this water to the settlers the monthly working charges can be met.

The Village Panchayet concerned have resolved in their meeting held on 8th March 1934 in the presence of the Sub Division Officer and the Amildar that they would look after the plant and meet the maintenance charges.

3. In view of the fact that great inconvenience is being felt by the people in the settlement for lack of water supply the Deputy Commissioner strongly recommends the scheme for sanction. I agree with the Deputy Commissioner and recommend that the proposed scheme may be sanctioned by Government very early.

4. The records bearing on the subject accompany for reference and return when done with.

I have the honour to be,

Sir,

Your most obedient servant,

Revenue Commissioner.

Letter No.C2.5293/31-32 dated 17-1-1934 from the Deputy Commissioner, Bangalore District, to the Revenue Commissioner in Mysore.

With reference to the correspondence ending with your Docket No.C. 953/32-33 dated 15-17th July 1933 returning the papers relating to the scheme for the supply of water to Whitefield, Bangalore taluk, with the observation that in the absence of information as to how the recurring expenditure on the Scheme is proposed to be met, the Scheme cannot be recommended to Government etc., I have the honour to submit herewith a modified scheme received from Mr.White, on behalf of the Board of Trustees for the Lottery Trust Fund, together with a copy of his letter dated 19-7-33 thereon. The Scheme is a modest one and provides for pumping water from a bore hole throught a three inch rising main into a raised Reservoir situated in front of the Cattle Pound at the centre of the Whitefield settlement known as the Circle. From the Reservoir there will be an outlet with a suitable arm for filling the water carts. The Scheme is estimated to cost Rs 6000/- excluding the provision of Rs 300/- for contingencies. The maintenance charges are estimated at Rs 35/- per mensem.

2. The Scheme proposes to supply water to the major portion of the settlers, residing in the vicinity of the said Circle. Mr.White also hopes to extend the scheme at some future time to embrance the whole colony if the question of maintenance charges is properly solved and if one half of the cost of the Scheme is met by Government.

3. The Sanitary Engineer who was consulted in the matter states in his letter No.1213 dated 1/2-12-33 that the Scheme is similar to one proposed by his office in the year 1931-32, that on account of the low level of the centre where the reservoir is to be put up, the Scheme is incapable of expansion to command the whole settlement and that the working expenses would amount to Rs 60/- against Rs 35/- provided for in the estimate for the reasons stated in his letter (Copy enclosed).

4. I am, however of opinion, that, however limited the scheme is, it is calculated to meet the want of a major portion of the settlers in respect of water supply and this is the only scheme that can be tried at present with some success.

Appendix F G—1]

SUBJECT .....

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.....

Section RP
File No. 13-33
Serial No. 15

Diary No. of letter replied to 2242

No. L 3918 // Secl Records

To

The Dy Comr Hatton &c

General and Revenue Secretariat

( )

the *193*

Date of issue 11-12-33

Signed by Dr. Q. Subbaiah

Sir,

With refce to your letr No dAR 12/33 dt 13.11.33 forwarding proof notification relating to the acqn of land for extension of Sivagojipura village, Belur Tk I am directed to state that there is no necessity for acqn proceedings in the case, as the land has been purchased & is in the enjoyment of the present owners & ~~I am to add~~ and that action may be taken to mise the land in the gavalkana

The records are returned

I have &c

for S/T for Genl Secy

28-11-33

List of enclosures .....

Copied by .....

Examined by .....

5. The Trustees of the Whitefield Lottery Trust Fund have agreed to contribute Rs 6000/- towards the cost of the Scheme.

6. As regards the maintenance charges, it has to be stated that at present, the settlers of Whitefield are purchasing water at Rs 5/- per 1000 gallons every day. From the Second Bore hole already sunk, a supply of 1200 gallons per day is expected. It is proposed to sell this supply of water at Rs 2/- per 1000 gallons and from the income of about Rs 60/- per month expected to be realised the recurring charges are proposed to be met.

7. The working of this Scheme may well be entrusted to the Village Panchayet of White field.

8. I request you to be so good as to obtain approval of Government for the modified Scheme of water supply to Whitefield as now proposed at a very early date.

9. The estimate and plans of the Scheme are herewith sent for kind reference.

Letter dated 19th July 1933, from Mr.A.J.H.White, Trustee, Whitefield Lottery Trust Fund, to the Deputy Commissioner, Bangalore District.

On behalf of the Board of Trustees of the Lottery Trust Fund, of which I am a member, I beg to remind you of a Meeting held in Whitefield on 23-6-1932, under the Chairmanship of the Assistant Commissioner, Bangalore Sub Division, and at which the Amildar of Bangalore was present.

At this meeting a resolution was passed applying for a contribution on half the cost of the Water supply scheme for Whitefield, which was estimated to come up to Rs 20,000/-. As we Trustees have not heard officially as to how this matter has been disposed of, I am directed to ask you whether the scheme is still open for consideration.

Unofficially we have heard that Government has turned the scheme down, because the Panchayet of Whitefield was unable to show ways and means for contributing towards the initial expenses as well as for

satisfactorily maintaining it. Will you kindly let us know whether this is correct.

With regard to the initial outlay, I may now state that, in view of the fact, that the water supply of Whitefield is a very urgent matter, We, the Trustees are prepared to contribute Rs 10,000/- if the above scheme is sanctioned. In doing this, however, we desire to state that the efficient maintenance of the scheme is of such importance to us, that we must request you to give us a guarantee that the Panchayet or any other Government or quasi Government Body, is in a position to maintain the scheme efficiently for practically all time. Under the term "Maintenance" we include repairs and renewal of plant. We wish to emphasise this matter in view of the unenviable notoriety of Whitefield in wasting Trust Fund Money, such as the Barn which was built out of th Lottery Fund money and which has disappeared fro the earth, and the school room which fast following suit.

In the event of any difficulty being experienced in taking into consideration the scheme referred to in the proceeding paragraph, I am directed to submit to you a modified scheme for the supply of water, drawn up for the Trustees, for sanction.

This scheme is estimated to cost Rs 6,000/- and has the further advantage of costing about Rs 35/- a month for maintenanne, against Rs 100/- per month of the larger scheme, and it will be more convenient for all concerned, than it is at present, with few, if any, facilities for water. As a matter of course however, there is a certain section of the Settlers, which is very vociferous in its denunciation of the smaller scheme, but if you think it is witnin the capacity of the Panchayet to maintain and guarantee such maintenance, we are prepared to undertake its execution.

In case the Government is pleased to contribute one half of the cost, we are also prepared to extend the scheme, so as to embrance the whole of the Colony in its Service, but here again the maintenance charges are the greatest stumbling block, because the majority of the Settlers wish tohave an ample water supply by contributing as little as possible for its accomplishment.

Letter No.1213 dated 1st/2nd December 1933, from the Sanitary Engineer,Bureau of Sanitary Engineering,Camp,Mysore,to the Deputy Commissioner,Bangalore-

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With reference to your No.C2.5293/31-32 dated 3-10-33 forwarding for my opinion a copy of letter dated 19th July from Mr.White,Trustee, Whitefield Lottery Fund about the water supply to the Colony, I have the honour to state that the Scheme now proposed by the Trustee is almost exactly similar to the one proposed by this office in 1931-32.

The estimate provides for lifting water into an elevated reservoir in the centre of the circle to the South of the ridge in the middle of the colony. The ground level at the site of the proposed reservoir,is Reduced Level 53 while that at the ridge is about 125. and the level at the houses to the north is 83. The present scheme is therefore incapable of expansion so as to command the whole settlement

As regards maintenance charges,the motor horse power is taken equal to the pump horse power. This is impossible. It is not safe to assume an efficiency greater than 40 or 50 percent in the case of deep well pumps,and hence the motor has to be of about 4 horse power. Calculated on this basis,the power charges for working four hours a day will be Rs 22-8-0 a month.

Some one better than a cleaner attendant is necessary to be in charge of the plant and the provision of Rs15/- a month is inadequate. A sum of at-least Rs 25/- a month is necessary.

The maintenance charges will thus be

Power	Rs 23.
Attendant.	25
Oil waste etc.,	12
	60/-

The enclosures received with your above letter are herewith returned.

Letter No.C2.5293/31-32 dated 28th March 1934,from the Deputy Commissioner,Bangalore District,to the Revenue Commissioner in Mysore.

With reference to your docket No.C.3027/33-34 dated 15-2-1934, regarding the Whitefield Water Supply Scheme,- I have the honour to state that the Sub Division Officer who was specially instructed by me to attend the meeting of the panchayet has reported that he and the Amildar attended the meeting held on 8-3-1934 and that the village panchayet wanttover the whole scheme and resolved after full discussion that they would look after the plant and meet the necessary working charges. A copy of the resolution is enclosed in the records.

The entire file of papers is herewith returned.

C o p i e s.

G Rudrappa

For Revenue Commissioner.

RB

Letter No.C2.5293/31-.2 dated 11th August 1.32,from the Deputy Commissioner,Bangalore District,to the Revenue Commissioner in Mysore.

I have the honour to state that in connection with the water supply scheme to Whitefield,the Executive Sanitary Engineer has prepared alternativ estimates,one for Rs 18,000/- with a recurring annual expenditure of Rs 900/- and the other for Rs 18,300/- with a recurring annual expenditure of Rs 1100/- The Sanitary Engineer recommends the acceptance of the estimate for Rs18,000/ as being the better and cheaper in the long run. This estimate is to provide for pumping water by means of a motor suction pump from the bore-well sunk just above the Nalurahalli tank, to a masonry reservoir of 5000/-gallons capacity to be constructed on the top of a ridge and thence to gravitate water to the stand pipes. The detailed plan and estimates together with a copy of Executive Sanitary Engineer's letter No.284 dated 29-4-1932 addressed to Mr.J.J.Mieldaziz, Rockfeller Foundation Sanitary Engineer are enclosed.

The Village panchayet of Whitefield in their special meeting dated 23-6-1932 convened for the purpose of discussing the question of water supply and presided over by the Sub Division Officer,Bangalore Sub Division when the Amildar,Bangalore taluk was also present,has recorded its approval to estimate No.1 for 18000/- with slight veriations viz.,that the main lines on the southern side of the reservoir be extended up to Kelly's lane as the majority of the residents are on the side of the Colony. This variation may lead to increase in the estimate by about Rs 2000/-. The Panchayet of Whitefield in their resolution Nos.I and II (copy enclose request that one half of the estimated amount may be sanctioned by Government and state that they would meet the other half.

In view of the fact that great inconvenience is being felt by the people in the Colony for dearth of drinking water, I request that a grant of Rs 10000/- may kindly be recommended to Government for sanction. On receipt of administrative sanction for the grant applied for, the Village Panchayet will be asked to deposit the other half of the amount required.

Copy.

G Rudrappa

for Revenue Commissioner.

POB.

No. B2-822 / 33-34 Confile

Office of the Assistant Commissioner,
Bangalore Sub-Division,
Dated Bangalore the 14th March 1934.

From

The Assistant Commissioner,
Bangalore Sub-Division.

To

The Deputy Commissioner,
Bangalore District.

Sir,

19560

DEPUTY COMMISSIONER'S OFFICE C2 15 MAR 1934 BANGALORE DIST.

Re 5-40 & 17-3-34.

With reference to your No.C-2-5293/31-32 dated 19th February 1934 I and the Amildar, Bangalore Taluk, attended the meeting of White-Field Village Panchayet held on Thursday the 8th instant in connection with the White-Field Water Supply scheme. The question of water supply was discussed at length in the meeting and it was resolved that this Panchayet guarantees to look after the plant and pay up the working charges. In this connection the Committee reminded about their resolution dated 21st July 1933 for sanction to levy of a water tax. Copy of the minutes received from the Chairman of the White-Field Panchayet is herein enclosed in original. The connected records are enclosed.

PA

I have the honor to be,
Sir,
Your most obedient servant,

Assistant Commissioner.

Letter No. C.3027/33-34 dated 15th February 1934
are file

from the Revenue Commissioner in Mysore to
the Deputy Commissioner, Bangalore District

In returning herewith the file of papers received with his letter No. C2-5293/31-32 dated 17th January 1934 regarding the Whitefield water Suttly Scheme, has the honour to observe that the Trustees of the Whitefield Lotteries trust Fund want a guarantee from the local village panchayet that they will look after the Plant and pay the working charges. It is requested that the whole Scheme may be placed before the village panchayet and their views ascertained and communicated to this office.

C-2-5293/31-32 Office of the Deputy Commissioner
File Bangalore District. Dated 19.2.34

Memo

Copy is forwarded to the Sub-Division officer Bangalore, for taking necessary action. He is

P.T.O.

B92-822
33-824.

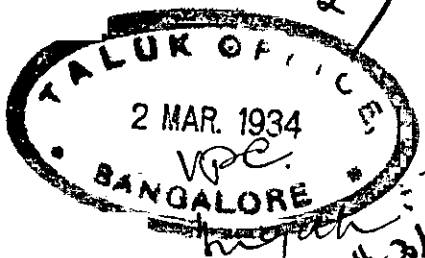
is requested to attend the Village panchayat meeting to get the matter through

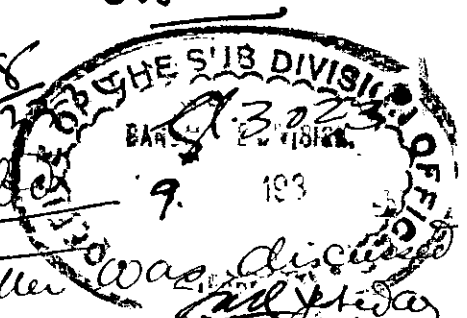
for Deputy Commissioner
Bangalore District.

Received
P2 - 8 22
Forwarded to the amildar Bangalore taluk for necessary action.

It is requested to see the undersigned before the 5th inst.

27/2/34
SDO





The matter was discussed at the meeting of the Panchayat today. A further resolution received today is forwarded herewith.

9/3/34.

ESTIMATE
for a proposed Water supply to the Settlement of Whitefield.

Preamble:- The question of a water supply to this Settlement has exercised the minds of all concerned for years past. Several projects have been proposed but each has been successively turned down for its own special reasons. The last estimate, prepared by the Mysore P.W.D., amounted to Rs: 20,000/- and was turned down in favour of a proposal to supply water from a bore hole, as this proposal (in rough) amounted to only Rs: 17,000/- round.

This proposal allowed for a reservoir on top of the hill near the Catholic Church, from which distribution pipes would be laid along the main road, one mile northwards and one mile southwards with a branch to the centre of the Settlement, or Circle as it is generally known.

After some 18 months of experiments another rough estimate has now been made out on the lines of the above, but the distribution mains have been very much curtailed and the branch-to-the-Circle has been left out. With all these omissions the estimate amounts to something over 18,000/- This estimate has now gone back to be revised for extending the pipe further southwards and some other minor details, which is expected to put the total estimate to something over Rs: 19,000/-. Of this sum the Whitefield Panchayet is expected to raise 1/3 rd: by a loan from the Mysore Government at 6 per cent, which means an annual charge for interest, only, of Rs: 190/-.

The annual maintenance charges on this project are estimated at Rs: 960/-

The annual income of the Panchayet, at present, is about Rs: 500/- so that it would be impossible to maintain the plant much less to pay back the loan.

These few facts alone places this project in the pale of the impossible for the next 10 years at least.

Proposals:- To overcome present difficulties and reduce the cost to a minimum I propose the following as an alternative to the

the scheme now under revision.

The second bore hole is reported to give a discharge of 1500 gallons an hour, during several days of continuous pumping. This is quite sufficient for the present needs of the Colony.

I propose to pump the water from this bore hole through a 3 inch rising main into a raised reservoir situated in front of the cattle pound. From this reservoir there will be an outlet with a suitable arm for filling water carts. The rising main will be laid as far as possible in a direct line to avoid unnecessary bends. It will perforce pass through some private lands and so I have allowed a small sum, in the estimate, for compensation for unforeseen contingencies which may arise in this direction. The general arrangement or the proposal is shown on the accompanying plan.

Advantages. This scheme has the following advantages in its favour to recommend it:

1. About half the main will be laid in the Settlement (freehold) area.
2. The reservoir, which will be the main point of distribution, will be in the Settlement area andwill therefore be easy of access and control.
3. As the reservoir will be in the Settlement area the water supply will undoubtedly be of primary advantage to owners of property in the Settlement.
4. And therefore there will be no legal objection for the Trustees to pay this amount out of the Trust Fund, or have the work put in for the Settlement.

Calculations: The water in the bore hole is 122 feet below ground level, The difference of ground level at the site of the bore and the proposed site of the reservoir is ~~50~~ 53 feet. The top of the reservoir will be ~~16~~ 15 feet above ground level. The 3 in: rising main will be ~~3300~~ 3200 feet or ~~1100~~ 1067 yards, and the head consumed by friction in this is according to Box, Table 111. 12feet. The total lift and throw is 122 plus ~~50~~ 53 plus ~~16~~ 15 plus 12 equals ~~200~~ 202 feet.

3 ict

General and Revenue Secretariat	VP File No. 38 of 1933.	[App. F. III—2

Serial No.

7. Letter No. 7757 dated 15-2-34 from the Chief Engineer requesting, with reference to Lr.o. No. 2 35574-86/VP 38-33-2 dated 21-11-33, that for reasons given he may be given discretion to post not only subordinates already in service but also fresh recruits who have gained practical experience by working elsewhere.

The reasons for making the present recommendation are as follows:

(1) That it is not possible always to post experienced subordinates as they may be getting a salary higher than that stipulated in the order of 23-11-33.

(2) That it takes time to relieve subordinates in charge of works & to allow them to join the respective Panchayats

(3) That the travelling allowances payable to the officers concerned will have to be borne by the panchayats concerned, thus entailing additional expenditure.

The Chief Engineer states that there are many applicants who can join service immediately on receipt of orders and suggests that he may be given discretion as regards subordinates to be posted for V.P. work.

The Revenue Commissioner may perhaps be consulted on the proposal made unofficially.

Submitted for orders.

A may be done

20/2/34

21/2

NOTE—Contn. Sheet.

WD 0434—GPB—15,000—12-10-33

Reservoir. The population of the Colony varies from 150 to 200. Taking the higher figure and allowing 10 gallons per head 2000 gallons a day will be required. To allow for a day off at any time for the pump, 4000 gallons will be required, and to allow for an increase in the population in the near future, add 50 per cent more for one day.

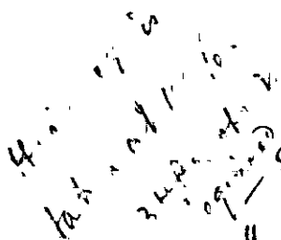
The capacity of the reservoir will therefore have to be 5000 gallons. I propose a steel tank 20 by 10 by 5 feet (with an overflow at 4 feet) supported on ~~a framework of~~ masonry walls and R.S.Beams 10 feet above ground level.

Motor & Pump: As the bore hole yields 1500 gals: per hour 5000 gals: can be pumped up in 3 and 1/3 rd: or say 4 hours.

The motor will be required to pump 1500 gals: against a total head of 202 feet in one hour,

The M.H.P. required will therefore be:

$$\frac{1500 \times 10 \times 202}{60 \times 33000} = \frac{101}{66} = 1.53 \text{ M.H.P.}$$



or $\frac{101}{66} \times \frac{3}{4} = \frac{303}{264} = 1.14$ K.W.

A 1and1/2 K.W. motor will do the work required. Allow for a 2 K.W. motor.

Maintenence: The present price of water in Whitefield is Rs: 5/- per 1000 gals: If at the start we are able to dispose of only 1000 gals: a day at the modest rate of Rs: 2/- this will give us Rs: 60/- per month, which gives a very safe margin for the working expenses, as follows:

A 2 K.W. motor working for 4 hours a day will consume 8 units of electric current. This at one anna per unit is 8 annas a day or Rs: 15/- per month. This is an outside figure, it will probably be less but cannot be more.

Electric current ----------	Rs: 15/- p.m.
Cleaner attendant ----------	Rs: 15/- p.m.
Oil, waste etc: ----------	Rs: 5/- p.m.
Total.	Rs: 35/- p.m.